
Contents of Volume 13

Volume 13 Number 1

January/February 1998

Enzymatic and Kinetic Properties of Blood Coagulation Factor XIIIa and Guinea Pig Liver Transglutaminase Utilizing (6-[<i>N</i>-(4-Aminobutyl)-<i>N</i>-ethylamino]-2,3-dihydrophthalazine-1,4-dione, as a Novel, Specific and Sensitive Chemiluminescent Substrate K. E. Achyuthan	1
Chemiluminescence of Cereal Products II. Chemiluminescence Spectra D. Slawinska and J. Slawinski	13
Chemiluminescence of Cereal Products III. Two-dimensional Photocount Imaging of Chemiluminescence D. Slawinska and J. Slawinski	21
Chemiluminescence Derivatization of Adenyl Compounds with Glyoxal Derivatives in the Presence of Heteropoly Acids and its Application to the Simple and Sensitive Determination of DNA N. Kuroda, K. Nakashima, S. Akiyama, N. Sato, N. Imi, K. Shirakawa and A. Uemura	25
An Acridinium Sulphonylamide as a New Chemiluminescent Label for the Determination of Carboxylic Acids in Liquid Chromatography O. M. Steijger, D. A. Kamminga, H. Lingeman and U. A. Th. Brinkman	31
BIOLUMINESCENCE AND CHEMILUMINESCENCE LITERATURE The 1997 Literature Part 1 L. J. Kricka and P. E. Stanley	41
Announcements	61

Volume 13 Number 2

March/April 1998

Rat Urinary Chemiluminescence: Effect of Ethanol and/or Hexachlorobenzene Uptake M. C. Ríos de Molina, M. A. Suarez Lissi, A. Armesto, C. Lafourcade and E. Lissi	63
Changes of Structure and Energy on the Route from Dioxetane to Carbonly Products. A Quantum Chemical Study R. F. Vasil'ev	69
Phenol Derivatives as Enhancers and Inhibitors of the Luminol-H₂O₂-Horseradish Peroxidase Chemiluminescence A. Navaz Díaz, F. García Sánchez and J. A. González García	75

Stopped-Flow Analysis of $\text{Ru}(\text{bpy})_3^{3+}$ Chemiluminescent Reactions	
L. L. Shultz and T. A. Nieman	85
Pro-inflammatory Response of Alveolar Macrophages Induced by Sulphite: Studies with Lucigenin-dependent Chemiluminescence	
I. Beck-Speier, N. Dayal and K. L. Maier	91
Photographic Detection of Fluorescent-Labelled Oligodeoxynucleotide in the Blotting Format by Peroxyoxalate Chemiluminescence	
N. Kuroda, S. Hosoki, K. Nakashima, Shuzo Akiyama and R. S. Givens	101
Immune Complex Transfer Two-site Chemiluminescent Immunoassay for Serum Growth Hormone in Alevin Chum Salmon	
H. Fukada, M. Ban, H. Chiba and A. Hara	107
Book Reviews	113
Announcements	115

Volume 13 Number 3

May/June 1998

Preliminary Electrochemiluminescence Studies of Metal Ion-Bacterial Diazo-luminomelanin (DALM) Interactions	
J. G. Bruno, J. E. Parker, E. Holwitt, J. L. Alls and J. L. Kiel	117
Dissolved Oxygen Determination by Electrocatalysed Chemiluminescence with In-line Solid Phase Media	
J. E. Atwater, J. DeHart and R. R. Wheeler, Jr	125
Inhibition of the System Luminol-H_2O_2-$\text{Fe}(\text{CN})_6^{3-}$ Chemiluminescence by the $\text{Mn}(\text{II})$ Indirect Determination of Isoniazid in a Pharmaceutical Formulation	
A. Gregorio Alapont, E. Aurechia Giménez, L. Lahuerta Zamora and J. Martínez Calatayud	131
Preliminary Studies of the Enhanced Electrochemiluminescence of 2,3-Diaminonaphthalene in the Presence of Specific Metal Ions	
J. G. Bruno	139
Differentiation of Marine Luminous Bacteria Using Commercial Identification Plates	
J. C. Makemson, N. R. Fulayfil and L. Van Ert	147
BIOLUMINESCENCE AND CHEMILUMINESCENCE LITERATURE	
The 1997 Literature Part 2	
L. J. Kricka and P. E. Stanley	157

Volume 13 Number 4

July–August 1998

H-NS Controls the Transcription of the Three Promoters of <i>Vibrio fischeri lux</i> Cloned in <i>Escherichia coli</i>	
S. Ulitzur	185

Prospects for Chemiluminescent and Bioluminescent Immunoassay and Nucleic Acid Assays in Food Testing and the Pharmaceutical Industry L. J. Kricka	189
Chemiluminescent Determination of Esterases in Monocytes L. M. da Fonseca, B. Yavo, L. H. Catalani, R. F. Falcão, I. L. Brunetti and A. Campa	195
ABSTRACTS	
10th International Symposium on Bioluminescence & Chemiluminescence	201
Volume 13 Number 5	September–October 1998
Semiquantitative Bioluminescent Assay of Glutathione F. J. Romero and W. Mueller-Klieser	263
Different Effects of Exogenous Horseradish Peroxidase on Luminol-amplified Chemiluminescence Induced by Soluble and Particulate Stimuli in Human Neutrophils S. Kopprasch, M. Kohl and J. Graessler	267
Impaired Reactive Oxygen Metabolism of Phagocyte Leukocytes in NIDDM Patients. A Role for Non-enzymatic Glucosylation of Collagen R. Scatena, G. Nocca, P. De Sole, P. Bottoni and B. Giardina	273
Chemiluminometric β-Galactosidase Detection as a Basis for a Tetracycline Screening Test in Milk E. D. Haese, H. J. Nelis and W. Reybroeck	279
CURRENT AWARENESS	
2nd Meeting of the Italian Section of the International Society of Bioluminescence and Chemiluminescence	
Preface M. Pazzagli, I. Bronstein, A. K. Campbell, P. Pinzani, A. Roda and K. V. Wood	285
Ultraweak Light Emission is a Common Response of Bacterial Cells to Chemico-physical Stress M. Maccaronne, F. Agro' and N. Rosato	287
Using Non-radioactive Probes on Plants: a Few Examples G. P. Accotto, A. M. Vaira, E. Noris and M. Vecchiati	295
Highly Sensitive Chemiluminescent Method for the Detection of Cell Contamination S. M. Sirchia, I. Garagiola, C. De Andreis, L. Pendranzini, F. Poli, F. R. Grati, B. Diomelli and G. Simoni	303
Clinical and Analytical Performance of Automated Immunochemiluminometric Assays for Determination of Cardiac Markers in Serum M. Panteghini	307

Determination by HPLC of Adrenalin (E) and Noradrenalin (NE) in Certain Species of Mesopelagic Fish in the Strait of Messina

L. Salpietro, A. Donato, F. Baguet, J. Mallefet, M. A. Gargano and R. Marino 311

Total Antioxidant Capacity (TAC): is it an Effective Method to Evaluate the Oxidative Stress in Uraemia?

F. Bergesio, G. Monzani, R. Ciuti, P. Pinzani, N. Fiaschi, F. Priami, C. Cirami, C. Ciccarelli and M. Salvadori 315

Serum Antioxidant Capacity in Healthy and Diabetic Subjects as Determined by Enhanced Chemiluminescence

P. Pinzani, E. Petruzzi, C. Orlando, R. Gallai, M. Serio and M. Pazzagli 321

Volume 13 Number 6

November/December 1998

Antioxidant Properties of Bile Salt Micelles Evaluated with Different Chemiluminescent Assays: a Possible Physiological Role

A. Roda, C. Russo, P. Pasini, F. Piazza, G. Feroci, L. J. Kricka and M. Baraldini 327

New Screening Method to Detect Water-soluble Antioxidants: Acetaminophen (Tylenol®) and other Phenols React as Antioxidants and Destroy Peroxynitrite-based Luminol-dependent Chemiluminescence

K. Van Dyke, M. Sacks and N. Qazi 339

Chemiluminescent Assay of β -D-Galactosidase Based on Indole Luminescence

H. Arakawa, A. Tsuji and M. Maeda 349

What do we Measure with Luminol-, Lucigenin- and Penicillin-amplified Chemiluminescence? 1. Investigations with Hydrogen Peroxide and Sodium Hypochlorite

M. Rost, E. Karge and W. Klinger 355

LuxR Controls the Expression of *Vibrio fischeri* luxCDABE Clone in *Escherichia coli* in the Absence of *luxI* Gene

S. Ulitzur 365

Immobilization of Luciferase from a Firefly Lantern Extract on Glass Strips as an Alternative Strategy for Luminescent Detection of ATP

A. R. Ribeiro, R. M. Santos, L. M. Rosário and M. H. Gil 371

Keyword Index

379

Author Index

381

